

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Alvaro SANCHEZ-FERRER et al

Serial No.: 10/125458

Group Art Unit: 1626

Filed: April 19, 2002

For: PROCESS FOR PREPARING  
CEPHALOSPORANIC ACID  
DERIVATIVES USING ALPHA-  
KETOACID DERIVATIVES

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents  
Washington, DC 20231

Sir:

As a means of complying with the duty of disclosure under 37 CFR §1.56, and in accordance with 37 CFR §§1.97 and 1.98, Applicant(s), through the undersigned attorney, submits this Information Disclosure Statement. The patents, publications or other information submitted herewith are listed on the attached Form PTO-1449 and copies are attached.

Documents AB, AD-AJ, AN-AR, AU-AW and AC1-AM1 are discussed in the present specification. Document AE is the English counterpart of German Patent 3447023 cited in the specification. Document AI is the English counterpart of Belgium Patent 718824 also cited in the specification.

Documents AC, AL, AX, AY were cited in a European Search Report dated October 5, 2001 for EP01201718. Document AA is the English counterpart of Document AY and Document AK is an English counterpart of Document AX.

Documents AS, AT, AQ1 and AR1 were cited in a European Search Report dated October 23, 2001 for Application No. EP01201699.

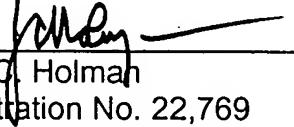
Documents AM, AZ, AA1, AB1 and AN1-AP1 were cited in a European Search Report dated April 9, 2002 for EP01201426.

In accordance with 37 CFR §1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits of the above-identified application.

Respectfully submitted,

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Date: June 19, 2002

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## LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: P67819US0  
SERIAL NO.: 10/125458  
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TODAY'S DATE: June 19, 2002

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U.S. PATENT DOCUMENTS

*EXAMINER <u>INITIAL</u>	DOCUMENT <u>NUMBER</u>	DATE	NAME	CLASS	SUB- CLASS	FILING DATE <u>If Appropriate</u>
AA	<u>3278531</u>	<u>10/11/66</u>	<u>Cox et al</u>	<u>260</u>	<u>243</u>	
AB	<u>3367933</u>	<u>02/06/68</u>	<u>Eardley et al</u>	<u>260</u>	<u>243</u>	
AC	<u>3872115</u>	<u>03/18/75</u>	<u>Sugimoto et al</u>	<u>260</u>	<u>243</u>	
AD	<u>3960662</u>	<u>06/01/76</u>	<u>Matsuda et al</u>	<u>195</u>	<u>29</u>	
AE	<u>4745061</u>	<u>05/17/88</u>	<u>Aretz et al</u>	<u>435</u>	<u>193</u>	
AF	<u>4774179</u>	<u>09/27/88</u>	<u>Ichikawa et al</u>	<u>435</u>	<u>51</u>	
AG	<u>5296358</u>	<u>03/22/94</u>	<u>Battistel et al</u>	<u>435</u>	<u>49</u>	

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FOREIGN PATENT DOCUMENTS

	DOCUMENT <u>NUMBER</u>	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION <u>YES</u> (NO)
AH	<u>2241557</u>	<u>03/21/75</u>	<u>France</u>			XX
AI	<u>1239814</u>	<u>07/21/71</u>	<u>Great Britain</u>			
AJ	<u>1272769</u>	<u>05/03/72</u>	<u>Great Britain</u>			
AK	<u>1295841</u>	<u>11/08/72</u>	<u>Great Britain</u>			
AL	<u>1385685</u>	<u>02/26/75</u>	<u>Great Britain</u>			
AM	<u>0167651B1</u>	<u>09/13/89</u>	<u>Europe</u>			
AN	<u>0283218B1</u>	<u>07/14/93</u>	<u>Europe</u>			
AO	<u>0315786A1</u>	<u>05/17/89</u>	<u>Europe</u>			
AP	<u>0364275B1</u>	<u>05/31/95</u>	<u>Europe</u>			
AQ	<u>0496993B1</u>	<u>05/01/96</u>	<u>Europe</u>			
AR	<u>0517200B1</u>	<u>08/14/96</u>	<u>Europe</u>			
AS	<u>0846695A1</u>	<u>06/10/98</u>	<u>Europe</u>			
AT	<u>WO90/12110</u>	<u>10/18/90</u>	<u>WIPO</u>			

EXAMINER \_\_\_\_\_ DATE CONSIDERED \_\_\_\_\_

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s)

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_____	AU <u>WO95/12680</u>	<u>05/11/95</u>	WIPO	_____	_____	_____
_____	AV <u>WO95/35020</u>	<u>12/28/95</u>	WIPO	_____	_____	_____
_____	AW <u>WO96/16174</u>	<u>05/30/96</u>	WIPO	_____	_____	_____
_____	AX <u>1953861</u>	<u>05/06/71</u>	Germany	_____	_____	XX
_____	AY <u>520709</u>	<u>05/15/72</u>	Switzerland	_____	_____	XX
_____	AZ <u>56-164194</u>	<u>12/17/81</u>	Japan	_____	_____	Abstract
_____	AA1 <u>2-270883</u>	<u>11/05/90</u>	Japan	_____	_____	Abstract
_____	AB1 <u>59-170095</u>	<u>09/26/84</u>	Japan	_____	_____	Abstract

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- AC1 Pszczola, FOOD TECHNOLOGY, Vol. 52, No. 3, March 1998, pgs. 30-35, The AB's of Nutraceutical Ingredients  
AD1 Schaefer et al, KIDNEY INTL, Vol. 36, Supp. 27, 1989, pgs. S136-S139, Calcium salts of ketoacids as a new treatment strategy...  
AE1 Buto et al, BIOTECHNOLOGY & BIOENGINEERING, Vol. 44, 1994, pgs. 1288-1294, Evaluation of D-Amino Acid Oxidase from...  
AF1 Savidge, BIOTECHNOLOGY OF INDUSTRIAL ANTIBIOTICS, Chapter 5, 1984, Enzymatic Conversions Used in the Production of...  
AG1 Parmar et al, CRITICAL REVIEWS IN BIOTECHNOLOGY, 18(1), 1998, pgs. 1-12, Recent Trends in Enzymatic Conversion of...  
AH1 Conlon et al, BIOTECHNOLOGY & BIOENGINEERING, Vol. 46, 1995, pgs. 510-513, Two-Step Immobilized Enzyme Conversion of...  
AI1 Won et al, APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, Vol. 69, 1998 pgs. 1-9, The Effect of 2-Mercapto-5-Methyl-1,3,4-...

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- AJ1 Riethorst et al, CHIMIA 53, 1999, pgs. 600-607, An Industrial View on Enzymes for the Cleavage of Cephalosporin C
- AK1 Kubicek-Pranz et al, JOUR OF APPLIED BIOCHEMISTRY 7, 1985, pgs. 104-113, D-Amino Acid Oxidase from the Yeast Trigonopsis...
- AL1 Szwajcer et al, BIOTECHNOLOGY LTRS., Vol. 7, No. 1, 1985, pgs. 1-7, Isolation and Partial Characterization of a D-Amino Acid...
- AM1 Kramer et al, TETRAHEDRON, 53(43), 1997, pgs. 14645-14650, Coimmobilization of L- $\alpha$ -Glycerophosphate Oxidase with...
- AN1 Hannah et al, JOUR OF MEDICINAL CHEMISTRY, Vol. 25, No. 4, 1982, pgs. 457-469, Quaternary Heterocyclamino  $\beta$ -Lactams: A...
- AO1 Nomura et al, JOUR OF MEDICINAL CHEMISTRY, Vol. 17, No. 12, 1974 Semisynthetic  $\beta$ -Lactam Antibiotics 6. Sulfocephalosporins and...
- AP1 Cocker et al, JOUR OF CHEMICAL SOCIETY, 1965, pgs. 5015-5031, Cephalosporanic Acids. Part II. Displacement of the...
- AQ1 Justiz et al, JOUR ORGANIC CHEMISTRY 62, 1997, pgs. 9099-9106, One-Pot Chemoenzymatic Synthesis of 3'-Functionalized...
- AR1 The Merck Index on CD-ROM, Version 12:2, 1997, Merck & Co. Inc., XP002177921, 4 pgs.

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